

## SERIES 4S BOILER EFFICIENCY

NATURAL GAS								
BOILER	25%		50%		75%		100%	
HP	10 psig	125 psig	10 psig	125 psig	10 psig	125 psig	10 psig	125 psig
100	83.8	80.5	83.5	80.6	83.0	80.3	82.4	79.7
125	84.0	80.9	84.0	81.1	83.8	81.0	83.4	80.7
150	83.9	80.8	83.7	80.8	83.4	80.6	82.8	80.1
175	84.1	81.0	84.1	81.2	83.8	81.1	83.5	80.8
200	84.2	81.1	84.3	81.4	84.2	81.4	83.9	81.2
250	84.2	81.1	84.1	81.3	83.9	81.2	83.6	80.9
300	84.3	81.3	84.4	81.6	84.3	81.6	84.1	81.5
350	84.3	81.3	84.4	81.5	84.3	81.6	84.0	81.4
400	84.4	81.4	84.5	81.7	84.5	81.8	84.3	81.7
500	84.4	81.4	84.5	81.6	84.4	81.7	84.2	81.5
600	84.5	81.5	84.6	81.8	84.6	81.9	84.5	81.9
700	84.5	81.5	84.6	81.8	84.5	81.9	84.4	81.8
800	84.5	81.6	84.7	81.9	84.7	82.0	84.6	81.9
Ave	84.2	81.2	84.3	81.4	84.1	81.4	83.8	81.2
#2 OIL								
BOILER	25%		50%		75%		100%	
HP	10 psig	125 psig	10 psig	125 psig	10 psig	125 psig	10 psig	125 psig
100	86.8	83.6	86.5	83.6	86.1	83.4	85.6	82.9
125	87.2	84.0	87.2	84.3	87.0	84.2	86.6	83.9
150	87.1	83.9	86.8	83.9	86.5	83.8	86.1	83.4
175	87.3	84.2	87.2	84.4	87.1	84.3	86.8	84.1
200	87.5	84.4	87.5	84.6	87.4	84.7	87.2	84.5
250	87.4	84.3	87.4	84.5	87.2	84.5	87.0	84.3
300	87.6	84.6	87.7	84.8	87.7	84.9	87.5	84.8
350	87.6	84.5	87.7	84.8	87.6	84.9	87.4	84.7
400	87.7	84.7	87.8	85.0	87.8	85.1	87.7	85.0
500	87.7	84.7	87.8	85.0	87.8	85.0	87.6	84.9
600	87.8	84.8	88.0	85.1	88.0	85.3	87.9	85.2
700	87.8	84.8	87.9	85.1	87.9	85.2	87.8	85.1
800	87.9	84.9	88.0	85.2	88.1	85.4	88.0	85.3
Ave	87.5	84.4	87.5	84.6	87.4	84.7	87.2	84.5
Excess Air levels:								
Firing Rate	Air	Ambient Air: 80 F						
25%	20%	Elevation: 1000 ft						
50%	18%							
75%	15%							
100%	15%							

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